[5164C] Gold Medal 6 with VR Skills

Team Name/Number: Marquez GOLD / 5164C

Team Members: Allie, Elliot, Olivia, and Tristan

Team Location: Pacific Palisades, California



Student Name: Marquez Gold - 5164C

Assignment: Allie Orief, Elliot Gottlieb, Tristan Oles, and Olivia Lam

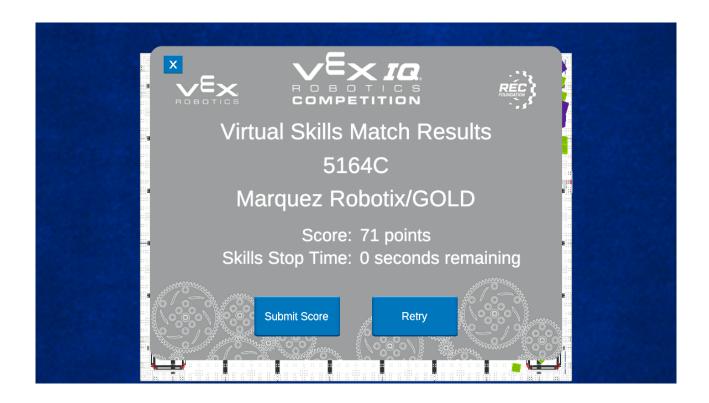
Notes: Team Location: Pacific Palisades, California

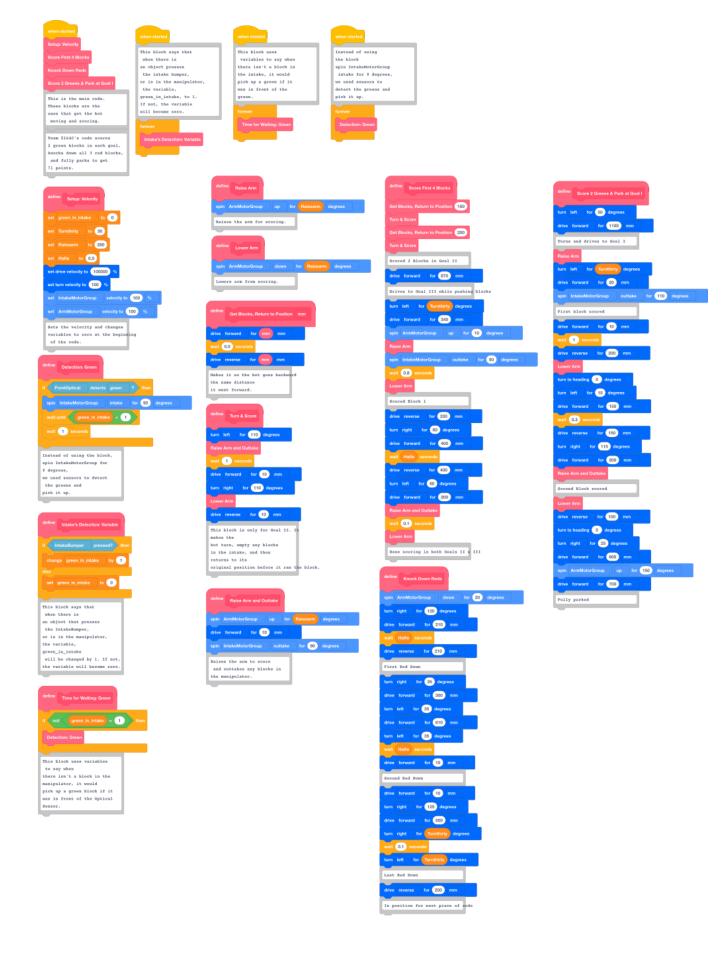
Playground: VIQC Virtual Skills - Full Volume

Project Name: 5164C Final Code

Project Type: Blocks

Date: Sat Jan 20 2024





Setup: Velocity

Score First 4 Blocks

Knock Down Reds

Score 2 Greens & Park at Goal I

This is the main code.

These blocks are the ones that get the bot moving and scoring.

Team 5164C's code scores

2 green blocks in each goal,
knocks down all 3 red blocks,
and fully parks to get

71 points.

This block says that
when there is
an object presses
the intake bumper,
or is in the manipulator,
the variable,
green_in_intake, to 1.
If not, the variable
will become zero.

forever

Intake's Detection: Variable

This block uses

variables to say when

there isn't a block in

the intake, it would

pick up a green if it

was in front of the

green.

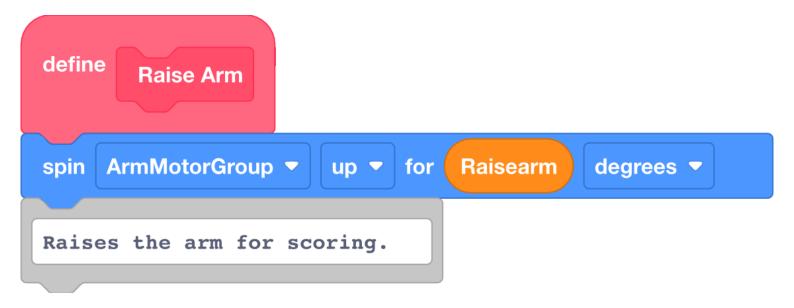
forever

Time for Waiting: Green

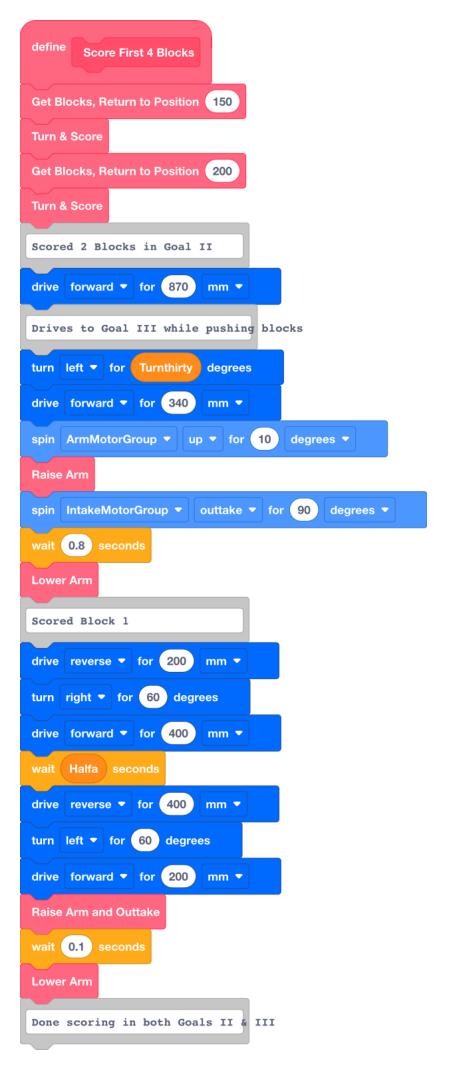
Instead of using
the block
spin IntakeMotorGroup
intake for # degrees,
we used sensors to
detect the greens and
pick it up.

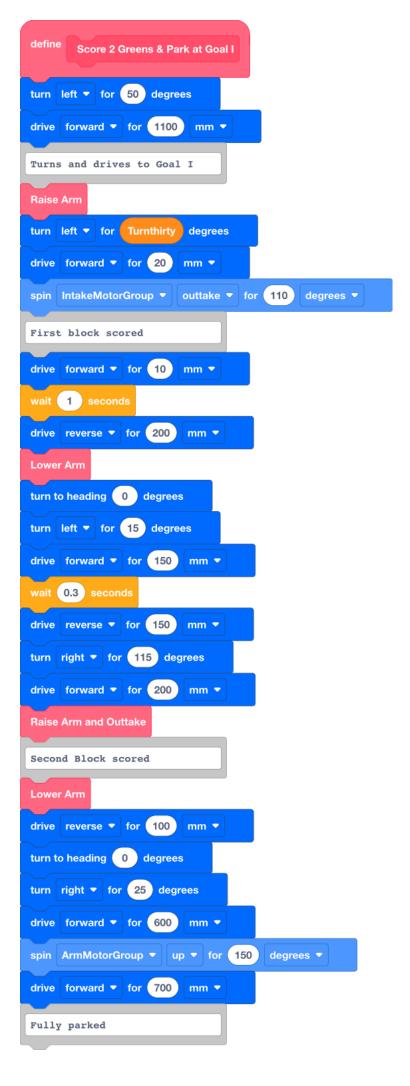
forever

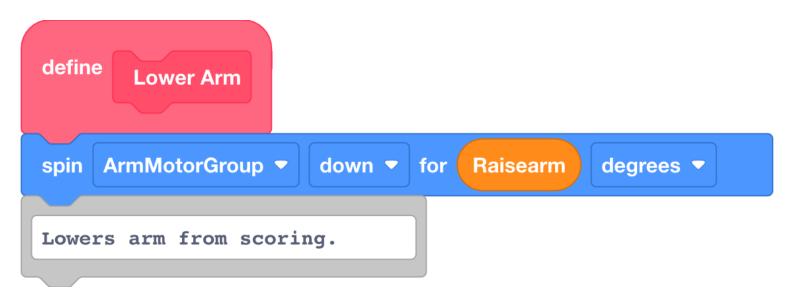
Detection: Green



define **Setup: Velocity** green_in_intake ▼ to 0 set Turnthirty ▼ to 30 set Raisearm **▼** to set Halfa ▼ to 0.5 set set drive velocity to 100000 % set turn velocity to 100 % IntakeMotorGroup ▼ velocity to 100 % set velocity to 100 **ArmMotorGroup ▼** % set Sets the velocity and changes variables to zero at the beginning of the code.









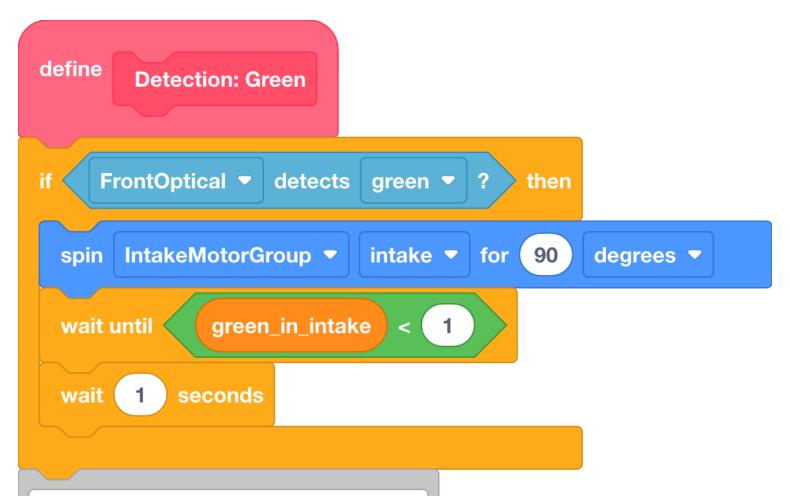
Get Blocks, Return to Position | mm

drive forward < for mm mm

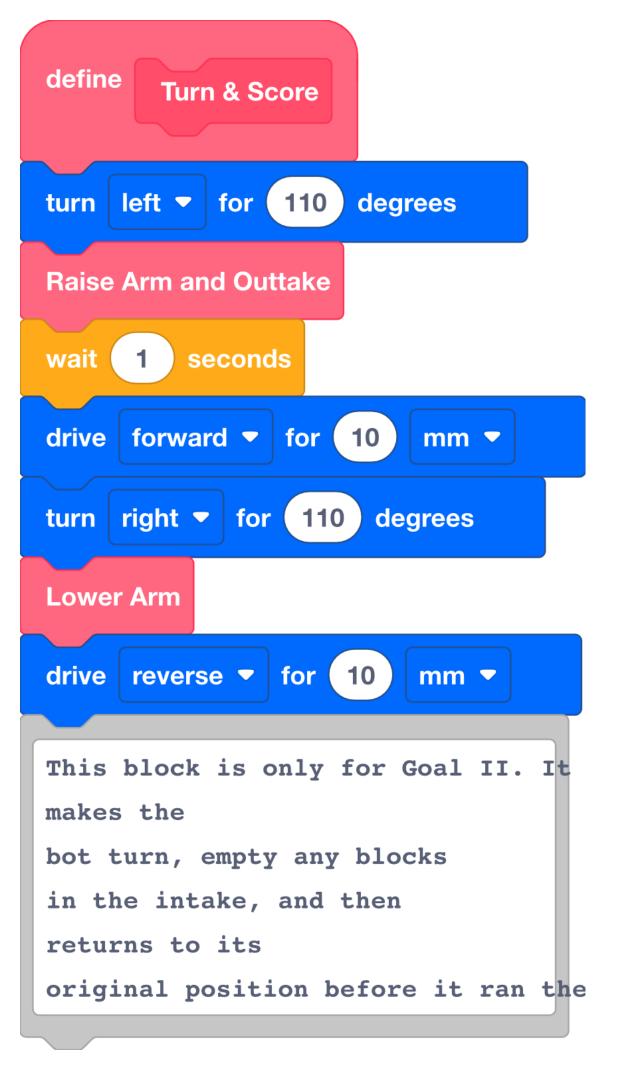
wait 0.5 seconds

drive for mm reverse mm

Makes it so the bot goes backward the same distance it went forward.



Instead of using the block,
spin IntakeMotorGroup for
degrees,
we used sensors to detect
 the greens and
pick it up.



if Intake's Detection: Variable

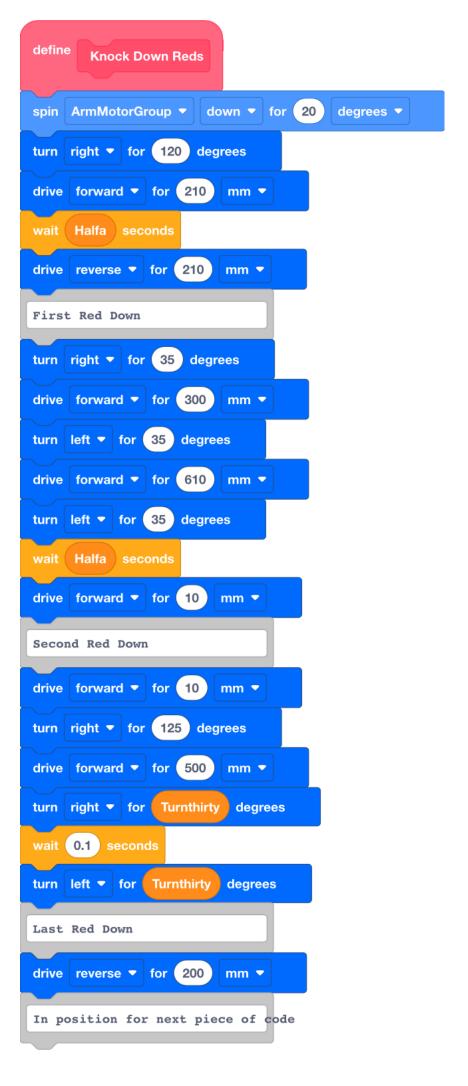
if IntakeBumper ▼ pressed? then

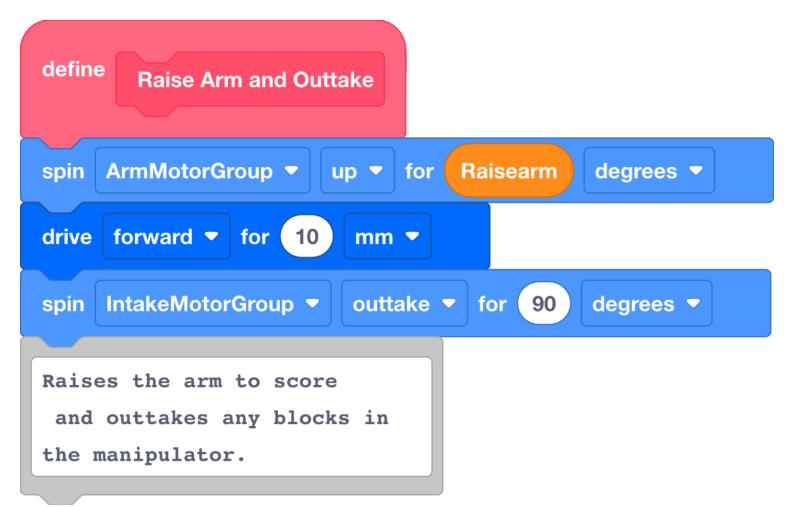
change green_in_intake ▼ by 1

else

set green_in_intake ▼ to 0

This block says that
when there is
an object that presses
the IntakeBumper,
or is in the manipulator,
the variable,
green_in_intake
will be changed by 1. If not,
the variable will become zero.





define

Time for Waiting: Green

f not

green_in_intake

1

then

Detection: Green

This block uses variables
to say when
there isn't a block in the
manipulator, it would
pick up a green block if it
was in front of the Optical
Sensor.